

Polimeri Europa Greenflex® FD 53 Ethylene Vinyl Acetate Copolymer - Blown Film Extrusion

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

Greenflex FD 53 is an ethylene vinyl acetate copolymer (EVA), containing antiblocking agent, for blown film extrusion. Films produced with Greenflex FD 53 exhibit good sealing properties, high flexibility and toughness and optimum processability. Main Applications: Greenflex FD 53 is recommended for the production of agricultural films and water proofing membrane having outstanding mechanical performances (flexibility, elasticity and adherence) and dimensional stability. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Greenflex-FD-53-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.938 g/cc	0.938 g/cc	ISO 1183
Vinyl Acetate Content	17 %	17 %	Internal Method
Thickness	50.0 - 200 microns	1.97 - 7.87 mil	Recommended
Melt Flow	0.47 g/10 min @Load 2.16 kg, Temperature 190 °C	0.47 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ISO 868/A
Hardness, Shore D	39	39	ISO 868/A
Film Tensile Strength at Yield, MD	5.00 MPa	725 psi	ISO 527-3
Film Tensile Strength at Yield, TD	4.50 MPa	653 psi	ISO 527-3
Film Elongation at Break, MD	490 %	490 %	ISO 527-3
Film Elongation at Break, TD	630 %	630 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	3.057 g/micron	77.65 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	5.095 g/micron	129.4 g/mil	ISO 6383-2
Dart Drop Test	>= 700 g	>= 1.54 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	34.0 MPa	4930 psi	ISO 527-3
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	ISO 527-3

1% Secant Modulus, MD Mechanical Properties	55.0 MPa Metric	7980 psi English	ISO 527-3 Comments
1% Secant Modulus, TD	60.0 MPa	8700 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	88.0 °C	190 °F	Internal Method
Vicat Softening Point	67.0 °C @Load 1.00 kg	153 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ISO 14782
Gloss	72 %	72 %	45°; ASTM D2457

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